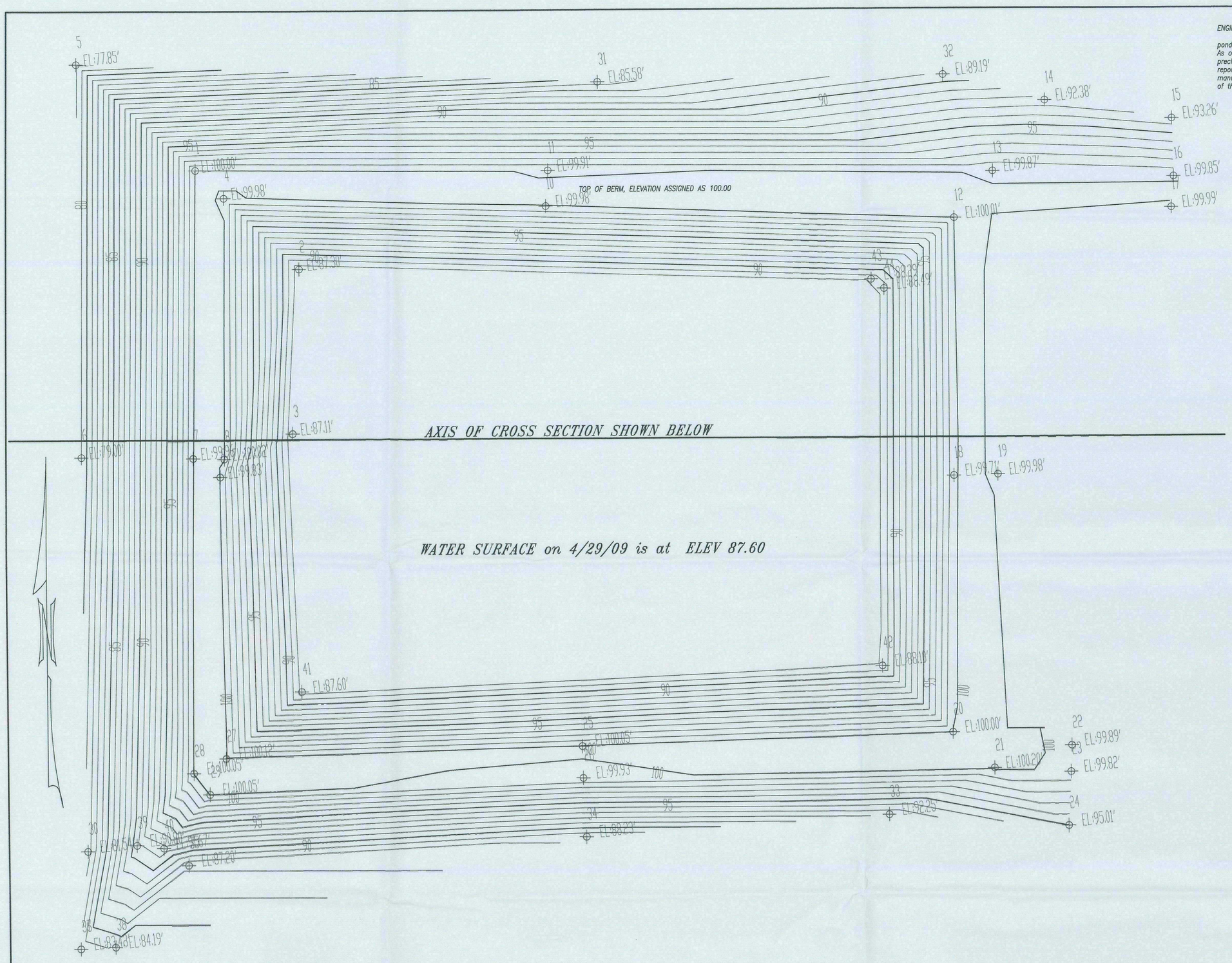
NM1 - __19____

CQA / CQC REPORT

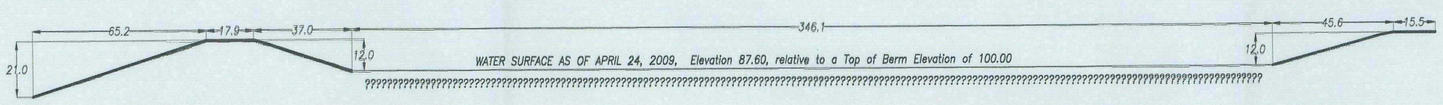
New Evaporation Pond

Construction Mar

Date: _July 2009__



PLAN VIEW OF NEW EVAPORATION/IMPOUND POND SCALE 1"=30' CONTOUR INTERVAL 1 FT



EAST-WEST PROFILE OF NEW EMBANKMENT SCALE 1"=30'

ENGINEERS COMMENTARY AND OBSEVATIONS

Presented hereon is the result of a survey to define the as built configuration of an evaporation pond constructed in the NW/4 of Section 9, T11S, R31E, NMPM, Chaves Co. NM, under Peermit NM-01-0020. As of the date of Survey, there was water in the bottom of the pond which had been introduced to preclude wind from lifting the liner system. We were unable to establish a bottom of the pond for this report. The pond is lined on the inside of the berm, We are unable to affirm or refute the liner thickness, manufacturer, or any of the seaming details or testing without destructive testing, which is beyond the scope of this engagement. Soil engineering data and compaction testing results were not made available to us..

FREEBOARD AND VOLUME CALCULATIONS

maximum water elevation at spill point 100.00
maximum wind generated wave height
from 90mph wind ..... 0.44 ft
100 yr/60day precipitation event
generates a change in pond depth of ...1.55 ft

Maximum allowable water level is 98.00

Surface area of 98 ft contour is ...125038 sqft
Surface area of 88 ft contour is ....81847 sqft
Volume capacity between 88 abd 98 ft countours is 23.57 acre feet

CANDY - MARLEY INCORPORATED

NMOCD PERMIT No. NM-01-0019
EVAPORATION POND AS BUILT

DRAWING NO. SHEET 1 OF 1

P.R. Patton & Associates
Consulting Engineers
Surveyors
Petroleum Bldg.
Roswell, N.M. 88203
505/622-9106

P. R. PATTON NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

REVISION / REFERENCE DWG.	DATE

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